

**KD-Validated Anti-CHCHD3 Mouse Monoclonal Antibody**  
**Mouse monoclonal antibody**  
**Catalog # AGI1946****Specification****KD-Validated Anti-CHCHD3 Mouse Monoclonal Antibody - Product Information**

Application	WB
Primary Accession	<a href="#">Q9NX63</a>
Reactivity	Rat, Human, Mouse
Clonality	Monoclonal
Isotype	Mouse IgG1
Calculated MW	Predicted, 26 kDa, observed, 26 kDa kDa
Gene Name	CHCHD3
Aliases	CHCHD3; Coiled-Coil-Helix-Coiled-Coil-Helix Domain Containing 3; MINOS3; PPP1R22; MICOS19; Mic19; Mitochondrial Contact Site And Cristae Organizing System Subunit 19; Mitochondrial Inner Membrane Organizing System 3; Protein Phosphatase 1, Regulatory Subunit 22; MICOS Complex Subunit MIC19; FLJ20420; Coiled-Coil-Helix-Coiled-Coil-Helix Domain-Containing Protein 3, Mitochondrial; Coiled-Coil-Helix-Coiled-Coil-Helix Domain-Containing Protein 3; MIC19
Immunogen	Recombinant protein of human CHCHD3

**KD-Validated Anti-CHCHD3 Mouse Monoclonal Antibody - Additional Information**

Gene ID	54927
<b>Other Names</b>	
MICOS complex subunit MIC19, Coiled-coil-helix-coiled-coil-helix domain-containing protein 3, CHCHD3, MIC19, MINOS3	

**KD-Validated Anti-CHCHD3 Mouse Monoclonal Antibody - Protein Information****Name** CHCHD3**Synonyms** MIC19, MINOS3**Function**

Component of the MICOS complex, a large protein complex of the mitochondrial inner membrane that plays crucial roles in the maintenance of crista junctions, inner membrane architecture, and formation of contact sites to the outer membrane (PubMed: [25781180](http://www.uniprot.org/citations/25781180), PubMed: [32567732](http://www.uniprot.org/citations/32567732), PubMed: [33130824](http://www.uniprot.org/citations/33130824)). Plays an

important role in the maintenance of the MICOS complex stability and the mitochondrial cristae morphology (PubMed:<a href="http://www.uniprot.org/citations/25781180" target="\_blank">25781180</a>, PubMed:<a href="http://www.uniprot.org/citations/32567732" target="\_blank">32567732</a>, PubMed:<a href="http://www.uniprot.org/citations/33130824" target="\_blank">33130824</a>). Has also been shown to function as a transcription factor which binds to the BAG1 promoter and represses BAG1 transcription (PubMed:<a href="http://www.uniprot.org/citations/22567091" target="\_blank">22567091</a>).

### Cellular Location

Mitochondrion inner membrane {ECO:0000250|UniProtKB:Q9CRB9}; Lipid-anchor; Intermembrane side {ECO:0000250|UniProtKB:Q9CRB9}. Cytoplasm. Nucleus Mitochondrion

### Tissue Location

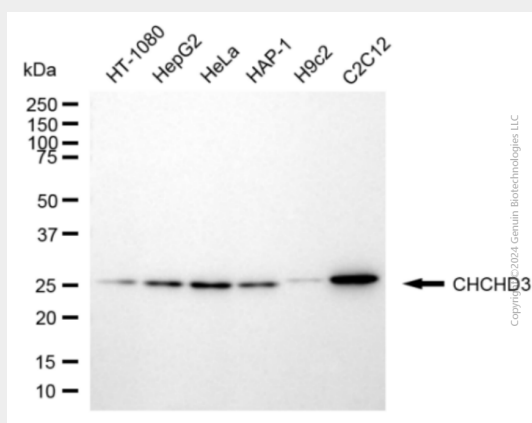
Detected at low levels in brain, placenta, lung, liver, kidney and pancreas with increased levels in heart and skeletal muscle. Higher expression in primary lung cancers than in normal lung tissue.

## KD-Validated Anti-CHCHD3 Mouse Monoclonal Antibody - Protocols

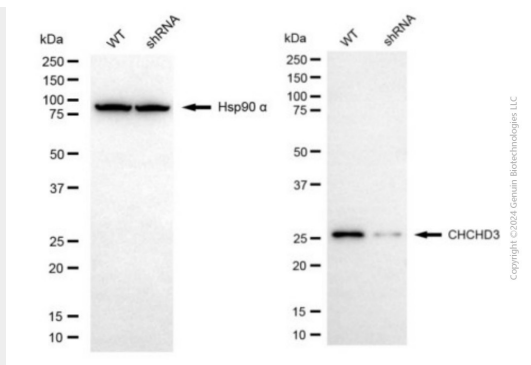
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

## KD-Validated Anti-CHCHD3 Mouse Monoclonal Antibody - Images



Western blotting analysis using anti-CHCHD3 antibody (Cat#AGI1946). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with anti-CHCHD3 antibody (Cat#AGI1946, 1:5,000) and HRP-conjugated goat anti-mouse secondary antibody respectively.



Western blotting analysis using anti-CHCHD3 antibody (Cat#AGI1946). CHCHD3 expression in wild type (WT) and CHCHD3 shRNA knockdown (KD) HeLa cells with 20  $\mu$ g of total cell lysates. Hsp90  $\alpha$  serves as a loading control. The blot was incubated with anti-CHCHD3 antibody (Cat#AGI1946, 1:5,000) and HRP-conjugated goat anti-mouse secondary antibody respectively.